

MULTIPHASE MOTOR WINDING TOPOLOGY AND CONTROL

Abstract of the Disclosure

A multiphase brushless permanent magnet motor has a stator provided with at least one winding for each phase, the windings permanently connected to each other at a plurality of junctions. A power source is coupled, via controlled motor energization circuitry, to a plurality of terminals connected to
5 respective junctions, the number of which terminals is fewer than the number of motor phases. The motor energization circuitry is appropriately controlled by a central processor. A reduced number of controllable states is achieved while retaining a high degree of precision controllability. Thus, duplication of identical energization circuitry for each phase is avoided.